

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

Claim 1. (Original) A remote diagnosis apparatus for diagnosing a skin lesion, which is communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope, comprising:

a database for storing data which are received from the first user terminal and relate to the skin lesion, and

a diagnosis program updated based on the data stored in the database and diagnosing skin images for the skin lesion,

the remote diagnosis apparatus receiving a skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope from the second user terminal; diagnosing the received skin image for the skin lesion with the use of the diagnosis program; and sending a diagnosis result to a predetermined destination.

2. (Original) A remote diagnosis apparatus communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope, comprising:

a database for storing data which are received from the first user terminal and relate to a skin lesion;

a diagnosis program which is updated based on the data stored in the database and
diagnoses skin images for the skin lesion; and

an image storage for storing the skin images to be diagnosed,

the remote diagnosis apparatus

receiving a skin image of a pigmentary deposition portion picked up by the camera
device with dermoscope and source information for identifying the pigmentary deposition
portion from the second user terminal and

storing the received skin image in the image storage after associating the source
information with the skin image, and

the diagnosis program taking out the skin image stored in the image storage to diagnose
the skin image for the skin lesion and sending a diagnosis result to a destination designated by
the source information.

3. (Original) A remote diagnosis apparatus communicably connected to a first user
terminal and a second user terminal provided with a camera device with dermoscope,
comprising:

a data receiving unit for receiving data relating to a skin lesion from the first user
terminal;

a database for storing data relating to the skin lesion, which stores the received data;

a receiving unit for receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion from the second user terminal;

an image storage for storing the received skin image after associating the source information with the skin image;

a diagnosis program which is updated based on the data stored in the database and takes out the skin image stored in the image storage to diagnose the skin image for the skin lesion; and

a sending unit for sending a diagnosis result of the diagnosis program to a destination designated by the source information.

4. (Original) A remote diagnosis apparatus communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope, comprising:

a database for storing data which are received from the first user terminal and relate to a skin lesion;

a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion; and

a second diagnosis program for diagnosing based on a comparison of plural diagnosis results for the skin lesion,

the remote diagnosis apparatus

receiving a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope from the second user terminal to diagnose the first skin image for the skin lesion with the use of the first diagnosis program,

storing a diagnosis result for the first skin image,

receiving a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point from the second user terminal and diagnosing the second skin image for the skin lesion with the use of the first diagnosis program,

diagnosing the skin lesion by comparing the diagnosis result for the first skin image with a diagnosis result for the second skin image with the use of the second diagnosis program, and

sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a predetermined destination.

5. (Original) A remote diagnosis apparatus communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope, comprising:

a database for storing data which are received from the first user terminal and relate to a skin lesion;

a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion;

a second diagnosis program for diagnosing based on a comparison of plural diagnosis results for the skin lesion;

an image storage for storing the skin images to be diagnosed; and

a diagnosis result storage for storing a diagnosis result,

the remote diagnosis apparatus

receiving a first skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentedary deposition portion, and first time information relating to a time of sending the first skin image from the second user terminal,

storing the first skin image in the image storage after associating the source information and the first time information with the first skin image,

taking out the first skin image stored in the image storage to diagnose the first skin image for the skin lesion with the use of the first diagnosis program,

storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the first time information with the diagnosis result,

receiving a second skin image of the pigmentedary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point, source information for identifying the pigmentedary deposition portion, and second time information relating to a time of sending the second skin image from the second user terminal,

storing the second skin image in the image storage after associating the source information and the second time information with the second skin image,

taking out the second skin image stored in the image storage to diagnose the second skin image for the skin lesion with the use of the first diagnosis program,

comparing the diagnosis result for the first skin image with a diagnosis result for the second skin image with the use of the second diagnosis program to diagnose further for the skin lesion, and

sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

6. (Original) A remote diagnosis apparatus communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope, comprising:

a database for storing data relating to a skin lesion;

a data receiving unit for receiving data relating to the skin lesion from the first user terminal;

a database for storing data relating to the skin lesion, which stores the received data;

a receiving unit for receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending the skin image from the second user terminal;

an image storage for storing the received skin image after associating the source information and the time information with the skin image;

a first diagnosis program which is updated based on the data stored in the database and takes out the skin image stored in the image storage to diagnose the skin image for the skin lesion;

a diagnosis result storage for storing a diagnosis result after associating the source information and the time information with the diagnosis result;

a second diagnosis program capable of diagnosing the skin lesion based on plural diagnosis results having different time information; and

a sending unit for sending at least one of diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

7. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 1 to 6~~ claim 1, characterized in that the second user terminal is provided with a portable telephone function.

8. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 1 to 7~~ claim 1, characterized in that the second user terminal communicates via the Internet.

9. (Original) A remote diagnosis apparatus communicably connected to
a database control server provided with a database for storing data relating to a skin lesion and
a user terminal provided with a camera device with dermoscope, comprising

a diagnosis program which is updated based on the data stored in the database and
diagnoses skin images for the skin lesion,

the remote diagnosis apparatus

receiving a skin image of a pigmentary deposition portion picked up by the camera
device with dermoscope from the user terminal,

diagnosing the received skin image for the skin lesion with the use of the diagnosis
program, and

sending a diagnosis result to a predetermined destination.

10. (Original) A remote diagnosis apparatus communicably connected to
a database control server provided with a database for storing data relating to a skin
lesion and

a user terminal provided with a camera device with dermoscope, comprising

a diagnosis program which is updated based on the data stored in the database and
diagnoses skin images for the skin lesion and

an image storage for storing the skin images to be diagnosed,

the remote diagnosis apparatus

receiving a skin image of a pigmentary deposition portion picked up by the camera
device with dermoscope and source information for identifying the pigmentary deposition
portion from the user terminal,

storing the received skin image in the image storage after associating the source information with the skin image,

diagnosing the skin image stored in the image storage for the skin lesion with the use of the diagnosis program, and

sending a diagnosis result to a destination designated by the source information.

11. (Original) A remote diagnosis apparatus communicably connected to a database control server provided with a database for storing data relating to a skin lesion and

a user terminal provided with a camera device with dermoscope, comprising:

a receiving unit for receiving a skin image of a pigmented portion picked up by the camera device with dermoscope and source information for identifying the pigmented portion from the user terminal;

an image storage for storing the received skin image after associating the source information with the skin image;

a diagnosis program which is updated based on the data stored in the database and takes out the skin image stored in the image storage to diagnose the skin image for the skin lesion; and

a sending unit for sending a diagnosis result of the diagnosis program to a destination designated by the source information.

12. (Original) A remote diagnosis apparatus communicably connected to
a database control server provided with a database for storing data relating to a skin
lesion and
a user terminal provided with a camera device with dermoscope, comprising
a first diagnosis program which is updated based on the data stored in the database and
diagnoses skin images for the skin lesion and
a second diagnosis program for diagnosing based on plural diagnosis results for the skin
lesion,
the remote diagnosis apparatus
receiving a first skin image of a pigmentedary deposition portion picked up by the camera
device with dermoscope from the user terminal,
diagnosing the first skin image for the skin lesion with the use of the first diagnosis
program,
storing a diagnosis result for the first skin image,
receiving a second skin image of the pigmentedary deposition portion same as the first
skin image picked up by the camera device with dermoscope at a different time point from the
user terminal,
diagnosing the second skin image for the skin lesion with the use of the first diagnosis
program,
comparing the diagnosis result for the first skin image with a diagnosis result for the
second skin image with the use of the second diagnosis program, and

sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

13. (Original) A remote diagnosis apparatus communicably connected to a database control server provided with a database for storing data relating to a skin lesion and

- a user terminal provided with a camera device with dermoscope, comprising:
 - a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion;
 - a second diagnosis program for diagnosing based on plural diagnosis results for the skin lesion;
 - an image storage for storing the skin images to be diagnosed; and
 - a diagnosis result storage for storing a diagnosis result,

the remote diagnosis apparatus

- receiving a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and first time information relating to a time of sending the first skin image from the user terminal,
- storing the first skin image in the image storage after associating the source information and the first time information with the first skin image,

taking out the first skin image stored in the image storage to diagnose the first skin image for the skin lesion with the use of the first diagnosis program,

storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the first time information with the diagnosis result,

receiving a second skin image of the pigmented deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point, source information for identifying the pigmented deposition portion, and second time information relating to a time of sending the second skin image from the user terminal,

storing the second skin image in the diagnosis result storage after associating the source information with the second skin image,

taking out the stored second skin image to diagnose the second skin image for the skin lesion with the use of the first diagnosis program,

diagnosing through a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program, and

sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

14. (Original) A remote diagnosis apparatus communicably connected to
a database control server provided with a database for storing data relating to a skin lesion and

a user terminal provided with a camera device with dermoscope, comprising:

a receiving unit for receiving a skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentedary deposition portion, and time information relating to a time of sending the skin image from the user terminal;

an image storage for storing the received skin image after associating the source information and the time information with the skin image;

a first diagnosis program which is updated based on the data stored in the database and takes out the skin image stored in the image storage to diagnose the skin image for a skin lesion;

a diagnosis result storage for storing a diagnosis result for the skin image after associating the source information and the time information with the diagnosis result;

a second diagnosis program capable of diagnosing the skin lesion based on plural diagnosis results for the skin lesion of the skin image, which are stored in the diagnosis result storage and different in time information; and

a sending unit for sending at least one of diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

15. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, comprising

receiving a skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope;

diagnosing the received skin image for the skin lesion; and
sending a diagnosis result to a predetermined destination.

16. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, comprising:

a diagnosis program for diagnosing skin images for the skin lesion and

an image storage for storing the skin images to be diagnosed;

the remote diagnosis apparatus receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion,

storing the received skin image in the image storage after associating the source information with the skin image,

taking out the skin image stored in the image storage and diagnosing the skin image for the skin lesion with the use of the diagnosis program, and

sending a diagnosis result to a destination designated by the source information.

17. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, comprising:

a receiving unit for receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion;

an image storage for storing the received skin image after associating the source information with the skin image;

a diagnosis program for taking out the skin image stored in the image storage to diagnose the skin image for the skin lesion; and

a sending unit for sending a diagnosis result of the diagnosis program to a destination designated by the source information.

18. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 9 to 17~~ claim 9, characterized in that the user terminal is provided with a portable telephone function.

19. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 9 to 18~~ claim 9, characterized in that the user terminal communicates via the Internet.

20. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 1 to 19~~ claim 1, characterized in that the dermoscope comprises a polarizing filter.

21. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 1 to 20~~ claim 1, characterized in that the skin lesion of a diagnosis object is melanoma.

22. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

- a first user terminal;
- a second user terminal provided with a camera device with dermoscope;
- a remote diagnosis apparatus communicably connected to the first user terminal and the second user terminal and comprises a database for storing data which are received from the first user terminal and relate to the skin lesion; and a diagnosis program relating to the skin lesion which is updated based on the data stored in the database, wherein
 - the second user terminal sends a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus, and
 - the remote diagnosis apparatus
 - receives the skin image,
 - diagnoses the received skin image for the skin lesion with the use of the diagnosis program, and
 - sends a diagnosis result to a predetermined destination.

23. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

- a first user terminal;
- a second user terminal provided with a camera device with dermoscope; and
- a remote diagnosis apparatus communicably connected to the first and the second user terminals, wherein

the first user terminal comprises a sending unit for sending data relating to the skin lesion to the remote diagnosis apparatus,

the second user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus, and

the remote diagnosis apparatus comprises

a data receiving unit for receiving the data from the first user terminal,

a database for storing the data which are received from the first user terminal and relate to the skin lesion,

an image receiving unit for receiving the skin image from the second user terminal,

a diagnosis program which is updated based on the data stored in the database and diagnoses the skin image received from the second user terminal for the skin lesion, and

a sending unit for sending a diagnosis result to a predetermined destination.

24. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a database control server communicably connected to the first user terminal and provided with a database for storing data which are received from the first user terminal and relate to the skin lesion;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the database control server and the second user terminal and provided with a diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion, wherein

the second user terminal sends a skin image of a pigmented portion picked up by the camera device with dermoscope; and

the remote diagnosis apparatus

diagnoses the skin image received from the second user terminal for the skin lesion with the use of the diagnosis program and

sends a diagnosis result to a predetermined destination.

25. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a database control server communicably connected to the first user terminal;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the database control server and the second user terminal, wherein

the first user terminal comprises a sending unit for sending data relating to the skin lesion to the remote diagnosis apparatus,

the database control server comprises

a data receiving unit for receiving the data from the first user terminal and

a database for storing the data which are received from the first user terminal and relate to the skin lesion;

the second user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus, and

the remote diagnosis apparatus comprises

a receiving unit for receiving the skin image from the second user terminal;

a diagnosis program which is updated based on the data stored in the database and diagnoses the skin image received from the second user terminal for the skin lesion; and

a sending unit for sending a diagnosis result to a predetermined destination.

26. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the first and the second user terminals and comprises a database for storing data which are received from the first user terminal and relate to the skin lesion, a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion, and a second diagnosis program for diagnosing based on plural diagnosis results for the skin lesion, wherein

the second user terminal sends a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus
receives the first skin image and
diagnoses the received skin image for the skin lesion with the use of the first diagnosis
program;

the second user terminal sends a second skin image of the pigmentary deposition
portion same as the first skin image picked up by the camera device with dermoscope at a
different time point to the remote diagnosis apparatus;

the remote diagnosis apparatus
receives the second skin image and
diagnoses the received second skin image for the skin lesion with the use of the first
diagnosis program;

the remote diagnosis apparatus
diagnoses the skin lesion by comparing the diagnosis result for the first skin image with
a diagnosis result for the second skin image with the use of the second diagnosis program and
sends at least one of the diagnosis results of the first diagnosis program and the second
diagnosis program to a predetermined destination.

27. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the first and the second user terminals, wherein

the first user terminal comprises

a sending unit for sending data relating to the skin lesion to the remote diagnosis apparatus;

the second user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending the skin image to the remote diagnosis apparatus; and

the remote diagnosis apparatus comprises

a data receiving unit for receiving the data from the first user terminal;

a database for storing the data which are received from the first user terminal and relate to the skin lesion;

an image receiving unit for receiving the skin image, the source information, and the time information from the second user terminal;

an image storage for storing the received skin image after associating the source information and the time information with the skin image;

a first diagnosis program which is updated based on the data stored in the database and diagnoses the skin image taken out from the storage for the skin lesion;

a second diagnosis program capable of diagnosing the skin lesion based on plural diagnosis results for the skin lesion of the skin image, which are stored in the diagnosis result storage and different in time information; and

a sending unit for sending at least one of diagnosis results of the first diagnosis program and the second diagnosis program to a predetermined destination.

28. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a database control server communicably connected to the first user terminal and provided with a database for storing data which are received from the first user terminal and relate to the skin lesion;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the second user terminal and comprising a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion, and a second diagnosis program for diagnosing the skin lesion based on a comparison of plural diagnosis results, wherein

the second user terminal sends a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus

receives the first skin image and

diagnoses the received first skin image for the skin lesion with the use of the first diagnosis program;

the second user terminal sends a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus

receives the second skin image,

diagnoses the received second skin image for the skin lesion with the use of the first diagnosis program,

diagnoses the skin lesion based on a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program, and

sends at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to the second user terminal.

29. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a first user terminal;

a database control server communicably connected to the first user terminal;

a second user terminal provided with a camera device with dermoscope; and

a remote diagnosis apparatus communicably connected to the database control server

and the second user terminal, wherein

the first user terminal comprises a sending unit for sending data relating to the skin lesion to the remote diagnosis apparatus;

the database control server comprises

a data receiving unit for receiving the data from the first user terminal and

a database for storing the data received from the first user terminal;

the second user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending the skin image to the remote diagnosis apparatus; and

the remote diagnosis apparatus comprises

an image receiving unit for receiving the skin image, the source information, and the time information from the second user terminal;

an image storage for storing the skin image after associating the source information and the time information with the skin image;

a first diagnosis program which is updated based on the data stored in the database and diagnoses the received skin image for the skin lesion;

a second diagnosis program capable of diagnosing based on plural diagnosis results for the skin lesion;

a diagnosis result storage for storing the diagnosis results; and

a sending unit for sending the diagnosis result to a predetermined destination.

30. (Currently Amended) The system according to ~~any one of claims 22 to 29~~ claim 22, characterized in that the second user terminal is provided with a portable telephone function.

31. (Currently Amended) The system according to ~~any one of claims 22 to 30~~ claim 22, characterized in that the second user terminal communicates via the Internet.

32. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:
a user terminal provided with a camera device with dermoscope and
a remote diagnosis apparatus communicably connected to the user terminal, wherein
the user terminal sends a skin image of a pigmentedary deposition portion picked up by
the camera device with dermoscope and source information for identifying the pigmentedary
deposition portion to the remote diagnosis apparatus, and
the remote diagnosis apparatus diagnoses the skin image received from the user terminal
for the skin lesion to send a diagnosis result to a destination designated by the source
information.

33. (Original) A remote medical diagnosis system for diagnosing presence/absence and
a disease state of a skin lesion, comprising:
a user terminal provided with a camera device with dermoscope and
a remote diagnosis apparatus communicably connected to the user terminal, wherein

the user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus, and

the remote diagnosis apparatus comprises

a receiving unit for receiving the skin image of the pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion;

an image storage for storing the received skin image after associating the source information with the skin image;

a diagnosis program taking out the skin image from the image storage to diagnose the skin image for the skin lesion; and

a sending unit for sending a diagnosis result obtained by the diagnosis to a destination designated by the source information.

34. (Original) A remote diagnosis system for diagnosing a skin lesion, comprising:

a user terminal provided with a camera device with dermoscope;

a remote diagnosis apparatus communicably connected to the user terminal;

a first diagnosis program diagnosing skin images for the skin lesion;

and a second diagnosis program for diagnosing based on plural diagnosis results for the skin lesion, wherein

the user terminal sends a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus
receives the first skin image and
diagnoses the received first skin image for the skin lesion with the use of the first diagnosis program, and

the user terminal sends a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope to the remote diagnosis apparatus, and

the remote diagnosis apparatus
receives the second skin image,
diagnoses the second skin image for the skin lesion with the use of the first diagnosis program,

diagnoses the skin lesion based on a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program, and

sends at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

35. (Original) A remote medical diagnosis system for diagnosing presence/absence and a disease state of a skin lesion, comprising:

a user terminal provided with a camera device with dermoscope and
a remote diagnosis apparatus communicably connected to the user terminal, wherein
the remote diagnosis apparatus comprises:
an image receiving unit for receiving a skin image of a pigmentary deposition portion
picked up by the camera device with dermoscope, source information for identifying the
pigmentary deposition portion, and time information relating to a time of sending the skin image;
an image storage for storing the received skin image after associating the source
information and the time information with the skin image;
a first diagnosis program for taking out the skin image from the image storage to
diagnose the skin image for the skin lesion;
a diagnosis result storage for storing a diagnosis result after associating the source
information and the time information with the diagnosis result;
a second diagnosis program for diagnosing the skin lesion based on plural diagnosis
results for the skin lesion having different time information; and
a sending unit for sending at least one of diagnosis results of the first diagnosis program
and the second diagnosis program to a destination designated by the source information.

36. (Currently Amended) The system according to ~~any one of claims 32 to 35~~ claim 32,
characterized in that the user terminal is provided with a portable telephone function.

37. (Currently Amended) The system according to ~~any one of claims 32 to 36~~ claim 32, characterized in that the user terminal communicates via the Internet.

38. (Currently Amended) The system according to ~~any one of claims 22 to 37~~ claim 22, characterized in that the dermoscope comprises a polarizing filter.

39. (Currently Amended) The system according to ~~any one of claims 22 to 38~~ claim 22, characterized in that the skin lesion which is a subject of the diagnosis is melanoma.

40. (Original) A user terminal comprising:
a camera device with dermoscope provided with a polarizing filter;
a sending unit capable of sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion;
a receiving unit capable of receiving a diagnosis result obtained by diagnosing the skin image for a skin lesion or a pigmentary deposition; and
a portable telephone function.

41. (Currently Amended) A user terminal characterized in that the sending/receiving unit sends/receives to/from any one of the remote diagnosis apparatuses defined in ~~claims 1 to 21~~ claim 1.

42. (Currently Amended) The user terminal according to claim 40 ~~or 41~~, characterized in that the sending unit capable of further sending time information relating to a time of sending.

43. (Currently Amended) The user terminal according to ~~any one of claims 40 to 42~~ claim 40, characterized by communicating with the remote diagnosis apparatus via the Internet.

44. (Currently Amended) The user terminal according to ~~any one of claims 40 to 43~~ claim 40, characterized in that the skin lesion which is a subject of the diagnosis is melanoma.

45. (Original) A program for causing a computer to execute a remote diagnosis for diagnosing a skin lesion, the computer being communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope and comprising a database for storing data which are received from the first user terminal and relate to the skin lesion, a diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion, and an image storage for storing the skin images to be diagnosed, wherein

the program causes the computer to execute

a step for receiving a skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentedary deposition portion from the second user terminal;

a step for storing the received skin image in the image storage after associating the source information with the skin image;

a step for taking out the skin image stored in the image storage and diagnosing the skin image for the skin lesion; and

a step for sending a diagnosis result to a destination designated by the source information.

46. (Original) A program for causing a computer to execute a remote diagnosis for diagnosing presence/absence and a disease state of a skin lesion, the computer being communicably connected to a first user terminal and a second user terminal provided with a camera device with dermoscope and comprising a database for storing data which are received from the first user terminal and relate to the skin lesion, a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion, a second diagnosis program for diagnosing the skin lesion based on a comparison of plural diagnosis results for the skin lesion, an image storage for storing the skin images to be diagnosed, and a diagnosis result storage for storing a diagnosis result, wherein

the program causes the computer to execute a step for receiving a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending the skin image from the second user terminal,

a step for storing the first skin image in the image storage after associating the source information and the time information with the first skin image;

a step for taking out the first skin image stored in the image storage to diagnose the first skin image for the skin lesion with the use of the first diagnosis program;

a step for storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the time information with the diagnosis result;

a step for receiving a second skin image of the pigmentedary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point, source information for identifying the pigmentedary deposition portion, and time information relating to a time of sending the skin image from the second user terminal,

a step for storing the second skin image in the image storage after associating the source information and the time information with the second skin image;

a step for taking out the second skin image stored in the image storage to diagnose the second skin image for the skin lesion with the use of the first diagnosis program;

a step for diagnosing the skin lesion based on a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program; and

a step for sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

47. (Original) A program for causing a computer to execute a remote diagnosis for diagnosing a skin lesion,

the computer being communicably connected to a database control server communicably connected to the first user terminal and provided with a database for storing data which are received from the first user terminal and relate to the skin lesion and

a second user terminal provided with a camera device with dermoscope

and comprising a diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion and an image storage for storing the skin images to be diagnosed, wherein

the program causes the computer to execute a step for receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope and source information for identifying the pigmentary deposition portion from the second user terminal;

a step for storing the received skin image in the image storage after associating the source information with the skin image;

a step for taking out the stored skin image and diagnosing the skin image for the skin lesion with the use of the diagnosis program; and

a step for sending a diagnosis result to a destination designated by the source information.

48. (Original) A program for causing a computer to execute a remote diagnosis for diagnosing a skin lesion, the computer being communicably connected to

a database control server communicably connected to the first user terminal and provided with a database for storing data which are received from the first user terminal and relate to the skin lesion and

a second user terminal provided with a camera device with dermoscope and comprising

a first diagnosis program which is updated based on the data stored in the database and diagnoses skin images for the skin lesion;

a second diagnosis program for diagnosing the skin lesion based on a comparison of plural diagnosis results for the skin lesion;

an image storage for storing the skin images to be diagnosed; and

a diagnosis result storage for storing a diagnosis result, wherein the program causes the computer to execute

a step for receiving a first skin image of a pigmentedary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentedary deposition portion, and time information relating to a time of sending the skin image from the second user terminal;

a step for storing the received first skin image in the image storage after associating the source information and the time information with the first skin image;

a step for taking out the stored first skin image to diagnose the first skin image for the skin lesion with the use of the first diagnosis program;

a step for storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the time information with the diagnosis result;

a step for receiving a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope, source information for identifying the skin lesion, and time information relating to a time of sending the skin image from the second user terminal;

a step for storing the received second skin image after associating the source information and the time information with the second skin image;

a step for taking out the stored second skin image to diagnose the second skin image for the skin lesion with the use of the first diagnosis program;

a step for diagnosing the skin lesion based on a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program; and

a step for sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

49. (Original) A program for causing a computer to execute a remote diagnosis for diagnosing a skin lesion,

the computer being communicably connected to

a user terminal provided with a camera device with dermoscope and comprising

a diagnosis program for diagnosing skin images for the skin lesion and

an image storage for storing the skin images to be diagnosed, wherein
the program causes the computer to execute a step for receiving a skin image picked up
by the camera device with dermoscope and source information for identifying the user terminal
with the dermoscope;
a step for storing the received skin image in the image storage after associating the
source information with the skin image;
a step for taking out the skin image stored in the image storage and diagnosing the skin
image for the skin lesion with the use of the diagnosis program; and
a step for sending a diagnosis result to a destination designated by the source
information.

50. (Original) A program for causing a computer to execute a remote diagnosis for
diagnosing a skin lesion,
the computer being communicably connected to
a user terminal provided with a camera device with dermoscope and comprising:
a first diagnosis program for diagnosing the skin images for the skin lesion;
a second diagnosis program for diagnosing the skin lesion based on a comparison of
plural diagnosis results for the skin lesion;
an image storage for storing the skin images to be diagnosed; and
a diagnosis result storage for storing a diagnosis result, wherein

the program causes the computer to execute a step for receiving a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending;

a step for storing the first skin image in the image storage after associating the source information and the time information with the first skin image;

a step for taking out the first skin image stored in the image storage to diagnose the first skin image for the skin lesion with the use of the first diagnosis program;

a step for storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the time information with the diagnosis result;

a step for receiving a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope, source information for identifying the second pigmentary deposition portion, and time information relating to a time of sending;

a step for storing the received second skin image in the image storage after associating the source information and the time information with the second skin image;

a step for taking out the second skin image stored in the image storage to diagnose the second skin image for the skin lesion with the use of the first diagnosis program;

a step for diagnosing the skin lesion based on a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program; and

a step for sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

51. (Currently Amended) A storage storing the program defined in ~~any one of claims 45 to 50~~ claim 45 in a machine-readable form.

52. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, the remote diagnosis apparatus comprising:

a first diagnosis program diagnosing skin images for the pigimentary deposition and

a second diagnosis program for diagnosing based on plural diagnosis results for the pigimentary deposition and

receiving a first skin image of a pigimentary deposition portion picked up by the camera device with dermoscope from the user terminal;

diagnosing the first skin image for the pigimentary deposition with the use of the first diagnosis program;

storing a diagnosis result for the first skin image;

receiving a second skin image of the pigimentary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point from the user terminal;

diagnosing the second skin image for the pigmentary deposition with the use of the first diagnosis program;

comparing the diagnosis result for the first skin image with a diagnosis result for the second skin image with the use of the second diagnosis program; and

sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

53. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, the remote diagnosis apparatus comprising:

a first diagnosis program diagnosing skin images for the pigmentary deposition;

a second diagnosis program for diagnosing based on plural diagnosis results for the pigmentary deposition;

an image storage for storing the skin images to be diagnosed; and

a diagnosis result storage for storing a diagnosis result,

receiving a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and first time information relating to a time of sending the first skin image from the user terminal,

storing the received first skin image in the image storage after associating the source information and the first time information with the first skin image,

taking out the first skin image stored in the image storage to diagnose the first skin image for the pigmentary deposition with the use of the first diagnosis program,

storing a diagnosis result for the first skin image in the diagnosis result storage after associating the source information and the first time information with the diagnosis result,

receiving a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point, source information for identifying the pigmentary deposition portion, and second time information relating to a time of sending from the user terminal, storing the second skin image in the diagnosis result storage after associating the source information with the second skin image,

taking out the stored second skin image to diagnose the second skin image for the pigmentary deposition with the use of the first diagnosis program,

diagnosing through a comparison between the diagnosis result for the first skin image and a diagnosis result for the second skin image with the use of the second diagnosis program, and sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

54. (Original) A remote diagnosis apparatus communicably connected to a user terminal provided with a camera device with dermoscope, the remote diagnosis apparatus comprising:

a receiving unit for receiving a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary

deposition portion, and time information relating to a time of sending the skin image from the user terminal;

an image storage for storing the received skin image after associating the source information and the time information with the skin image;

a first diagnosis program for taking out the skin image stored in the image storage to diagnose the skin image for a pigmentary deposition;

a diagnosis result storage for storing a diagnosis result after associating the source information and the time information with the diagnosis result for the skin image;

a second diagnosis program capable of diagnosing the pigmentary deposition based on plural diagnosis results for the pigmentary deposition of the skin image, which are stored in the diagnosis result storage and different in time information; and

a sending unit for sending at least one of diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

55. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 52 to 54~~ claim 52, characterized in that the user terminal is provided with a portable telephone function.

56. (Currently Amended) The remote diagnosis apparatus according to ~~any one of claims 52 to 55~~ claim 52, characterized in that the user terminal communicates via the Internet.

57. (Original) A remote diagnosis system for diagnosing a skin having a pigmentary deposition, comprising

- a user terminal provided with a camera device with dermoscope and
- a remote diagnosis apparatus communicably connected to the user terminal and comprising
- a first diagnosis program for diagnosing skin images for the pigmentary deposition and
- a second diagnosis program capable of diagnosing the pigmentary deposition based on a comparison of plural results of the diagnosis, wherein

the user terminal sends a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus

receives the first skin image and

diagnoses the received first skin image for the pigmentary deposition with the use of the first diagnosis program;

the user terminal sends a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope to the remote diagnosis apparatus;

the remote diagnosis apparatus

receives the second skin image;

diagnoses the received second skin image for the pigmentary deposition with the use of the first diagnosis program;

diagnosing the pigmentary deposition based on a comparison between the diagnosis result for the first skin image with a diagnosis result for the second skin image with the use of the second diagnosis program; and

sends at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to the second user terminal.

58. (Original) A remote diagnosis system for diagnosing a pigmentary deposition, comprising:

a user terminal provided with a camera device with dermoscope and
a remote diagnosis apparatus communicably connected to the user terminal, wherein
the user terminal comprises a sending unit for sending a skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and time information relating to a time of sending the skin image to the remote diagnosis apparatus, and

the remote diagnosis apparatus comprises:

an image receiving unit for receiving the skin image, the source information, and the time information from the second user terminal;

an image storage for storing the received skin image after associating the source information and the time information with the skin image;

a first diagnosis program for diagnosing the received skin image for the pigmentary deposition;

a second diagnosis program capable of diagnosing based on plural diagnosis results for the pigmentary deposition;

a diagnosis result storage for storing the diagnosis result; and

a sending unit for sending the diagnosis result to a predetermined destination.

59. (Currently Amended) The system according to claim 57 ~~or 58~~, characterized in that the user terminal is provided with a portable telephone function.

60. (Currently Amended) The system according to ~~any one of claims 57 to 59~~ claim 57, characterized in that the user terminal communicates via the Internet.

61. (Original) A remote diagnosis method for diagnosing a pigmentary deposition other than skin lesions using a remote diagnosis apparatus which is communicably connected to a user terminal provided with a camera device with dermoscope and comprises:

an image receiving unit for receiving a skin image to be diagnosed from the user terminal;

an image storage for storing a skin image;

a first diagnosis program for diagnosing skin images for the pigmentary deposition;

a second diagnosis program diagnosing based on plural diagnosis results for the pigmentary deposition;

a diagnosis result storage for storing the diagnosis results; and

a diagnosis result sending unit for sending at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to the user terminal, wherein

the image receiving unit receives a first skin image of a pigmentary deposition portion picked up by the camera device with dermoscope, source information for identifying the pigmentary deposition portion, and first time information relating to a time of sending the first skin image from the user terminal;

the image storage stores the first skin image after associating the source information and the first time information with the skin image;

the first diagnosis program takes out the first skin image stored in the image storage to diagnose the first skin image for the pigmentary deposition;

the diagnosis result storage stores a diagnosis result for the first skin image after associating the source information and the first time information with the diagnosis result;

the image receiving unit receives a second skin image of the pigmentary deposition portion same as the first skin image picked up by the camera device with dermoscope at a different time point, source information for identifying the pigmentary deposition portion, and second time information relating to a sending time from the user terminal;

the diagnosis result storage stores the received second skin image after associating the source information with the second skin image;

the first diagnosis program takes out the stored second skin image to diagnose the second skin image for the pigmentary deposition;

the second diagnosis program diagnoses through a comparison between the diagnosis result for the first skin image and the diagnosis result for the second skin image;

the diagnosis result sending unit sends at least one of the diagnosis results of the first diagnosis program and the second diagnosis program to a destination designated by the source information.

62. (Original) A diagnosis program which is updated based on plural skin images stored in a database of which diagnoses have been determined and used for diagnosing skin images to be diagnosed for a skin lesion, the diagnosis program causing a computer to execute

a step for performing image processing by separating a pigmentary disorder portion of a skin lesion from a peripheral normal portion in each of plural skin images on which the diagnoses have been made and separating a rim portion of the separated pigmentary disorder portion;

a step for deciding parameters to be used for discrimination of characteristics of the pigmentary disorder, such as a color, a texture, an asymmetry, and a circularity; and

a step for performing evaluation of each of the parameters using a predetermined system on the diagnosed skin images with the use of each of the parameters, performing evaluation of each of other parameters using the predetermined system on the diagnosed skin images with the use of each of other parameters, repeating the same operation until a diagnosis capability of any

one of parameter combinations reaches a predetermined value, and, ultimately, selecting a parameter combination having a smallest number of parameters from the parameter combinations having the diagnosis capability equal to or more than the predetermined value.

63. (Original) The diagnosis program according to claim 62, wherein the program further causes the computer to execute

a step for performing the image processing on a skin image to be diagnosed and

a step for obtaining a diagnosis result for the skin image to be diagnosed using the predetermined system with the use of the parameter combination selected in the fourth step.

64. (Currently Amended) The diagnosis program according to claim 62 ~~or 63~~, characterized in that the predetermined system is a neural network system.

65. (Currently Amended) The diagnosis program according to ~~any one of claims 62 to 64~~ claim 62, characterized in that at least one of the parameter evaluations is performed by employing a leave-one-out method.

66. (Currently Amended) The diagnosis program according to ~~any one of claims 62 to 65~~ claim 62, characterized in that the skin lesion which is a subject of the diagnosis is melanoma.

67. (Currently Amended) A storage storing the program defined in ~~any one of claims 62 to 66~~ claim 62, in a machine-readable form.

68. (Currently Amended) A method for screening a cosmetic agent or a drug for diminishing a pigmentary deposition of skin using the remote diagnosis apparatus according to ~~any one of claims 52 to 56~~ claim 52.

69. (Currently Amended) A method for screening a cosmetic agent or a drug for diminishing a pigmentary deposition of skin using the remote diagnosis system according to ~~any one of claims 57 to 60~~ claim 57.

70. (Original) A method for screening a cosmetic agent or a drug for diminishing a pigmentary deposition of skin using the remote diagnosis method according to claim 61.